



## Complete Summary

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### TITLE

Emergency medicine: percentage of patients (regardless of age) with an emergency department diagnosis of acute myocardial infarction who received fibrinolytic therapy and the fibrinolytic therapy was ordered by the physician within 20 minutes of performing the 12-lead ECG.

### SOURCE(S)

American College of Emergency Physicians, Physician Consortium for Performance Improvement®, National Committee for Quality Assurance. Emergency medicine physician performance measurement set. Chicago (IL): American Medical Association, National Committee for Quality Assurance; 2006 Oct. 14 p. [6 references]

## Measure Domain

### PRIMARY MEASURE DOMAIN

Process

The validity of measures depends on how they are built. By examining the key building blocks of a measure, you can assess its validity for your purpose. For more information, visit the [Measure Validity](#) page.

### SECONDARY MEASURE DOMAIN

Does not apply to this measure

## Brief Abstract

### DESCRIPTION

This measure is used to assess the percentage of patients (regardless of age) with an emergency department diagnosis of acute myocardial infarction who received fibrinolytic therapy and the fibrinolytic therapy was ordered by the physician within 20 minutes of performing the 12-lead electrocardiogram (ECG).

### RATIONALE

The time between the diagnostic electrocardiogram (ECG) to the administration of the fibrinolytic therapy is under the control of the emergency physician. Some

time is needed to evaluate any contraindications, weigh the treatment options and obtain the informed consent.\*

\*The following clinical recommendation statements are quoted verbatim from the referenced clinical guidelines and represent the evidence base for the measure:

The delay from patient contact with the healthcare system (typically, arrival at the emergency department [ED] or contact with paramedics) to initiation of fibrinolytic therapy should be less than 30 minutes. (American College of Cardiology/American Heart Association [ACC/AHA])

## **PRIMARY CLINICAL COMPONENT**

Acute myocardial infarction; timing of fibrinolytic therapy; 12-lead electrocardiogram (ECG)

## **DENOMINATOR DESCRIPTION**

All patients (regardless of age) with an emergency department (ED) diagnosis of acute myocardial infarction who received fibrinolytic therapy (see the related "Denominator Inclusions/Exclusions" field in the Complete Summary)

## **NUMERATOR DESCRIPTION**

Patients whose time from 12-lead electrocardiogram (ECG) performed to the time fibrinolytic therapy is ordered is 20 minutes or less

## **Evidence Supporting the Measure**

### **EVIDENCE SUPPORTING THE CRITERION OF QUALITY**

- A clinical practice guideline or other peer-reviewed synthesis of the clinical evidence

## **Evidence Supporting Need for the Measure**

### **NEED FOR THE MEASURE**

Unspecified

## **State of Use of the Measure**

### **STATE OF USE**

Current routine use

### **CURRENT USE**

Internal quality improvement

## Application of Measure in its Current Use

### **CARE SETTING**

Emergency Medical Services  
Hospitals

### **PROFESSIONALS RESPONSIBLE FOR HEALTH CARE**

Physicians

### **LOWEST LEVEL OF HEALTH CARE DELIVERY ADDRESSED**

Individual Clinicians

### **TARGET POPULATION AGE**

All patients regardless of age

### **TARGET POPULATION GENDER**

Either male or female

### **STRATIFICATION BY VULNERABLE POPULATIONS**

Unspecified

## Characteristics of the Primary Clinical Component

### **INCIDENCE/PREVALENCE**

Unspecified

### **ASSOCIATION WITH VULNERABLE POPULATIONS**

Unspecified

### **BURDEN OF ILLNESS**

Unspecified

### **UTILIZATION**

Unspecified

### **COSTS**

Unspecified

## Institute of Medicine National Healthcare Quality Report Categories

### IOM CARE NEED

Getting Better

### IOM DOMAIN

Effectiveness

## Data Collection for the Measure

### CASE FINDING

Users of care only

### DESCRIPTION OF CASE FINDING

All patients (regardless of age) with an emergency department (ED) diagnosis of acute myocardial infarction who received fibrinolytic therapy

### DENOMINATOR SAMPLING FRAME

Patients associated with provider

### DENOMINATOR INCLUSIONS/EXCLUSIONS

#### Inclusions

All patients (regardless of age) with an emergency department (ED) diagnosis of acute myocardial infarction who received fibrinolytic therapy

#### Exclusions

- Documentation of medical reason(s) for not ordering fibrinolytic therapy within 20 minutes of performing 12-lead electrocardiogram (ECG)
- Documentation of patient reason(s) for not ordering fibrinolytic therapy within 20 minutes of performing 12-lead ECG

### RELATIONSHIP OF DENOMINATOR TO NUMERATOR

All cases in the denominator are equally eligible to appear in the numerator

### DENOMINATOR (INDEX) EVENT

Clinical Condition  
Encounter  
Therapeutic Intervention

### DENOMINATOR TIME WINDOW

Time window is a single point in time

#### **NUMERATOR INCLUSIONS/EXCLUSIONS**

##### **Inclusions**

Patients whose time from 12-lead electrocardiogram (ECG) performed to the time fibrinolytic therapy is ordered is 20 minutes or less

##### **Exclusions**

None

#### **MEASURE RESULTS UNDER CONTROL OF HEALTH CARE PROFESSIONALS, ORGANIZATIONS AND/OR POLICYMAKERS**

The measure results are somewhat or substantially under the control of the health care professionals, organizations and/or policymakers to whom the measure applies.

#### **NUMERATOR TIME WINDOW**

Encounter or point in time

#### **DATA SOURCE**

Administrative data  
Medical record

#### **LEVEL OF DETERMINATION OF QUALITY**

Individual Case

#### **PRE-EXISTING INSTRUMENT USED**

Unspecified

### **Computation of the Measure**

#### **SCORING**

Rate

#### **INTERPRETATION OF SCORE**

Better quality is associated with a higher score

#### **ALLOWANCE FOR PATIENT FACTORS**

Unspecified

## STANDARD OF COMPARISON

Internal time comparison

## Evaluation of Measure Properties

## EXTENT OF MEASURE TESTING

Unspecified

## Identifying Information

## ORIGINAL TITLE

Measure #8: fibrinolytic therapy ordered within 20 minutes of 12-lead ECG performed for AMI.

## MEASURE COLLECTION

[The Physician Consortium for Performance Improvement® Measurement Sets](#)

## MEASURE SET NAME

[Emergency Medicine Physician Performance Measurement Set](#)

## SUBMITTER

American Medical Association on behalf of the American College of Emergency Physicians, the Physician Consortium for Performance Improvement®, and the National Committee for Quality Assurance

## DEVELOPER

American College of Emergency Physicians  
National Committee for Quality Assurance  
Physician Consortium for Performance Improvement®

## FUNDING SOURCE(S)

Unspecified

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## **FINANCIAL DISCLOSURES/OTHER POTENTIAL CONFLICTS OF INTEREST**

Conflicts, if any, are disclosed in accordance with the Physician Consortium for Performance Improvement® conflict of interest policy.

## **INCLUDED IN**

Ambulatory Care Quality Alliance

## **ADAPTATION**

Measure was not adapted from another source.

## **RELEASE DATE**

2006 Oct

## **MEASURE STATUS**

This is the current release of the measure.

## **SOURCE(S)**

American College of Emergency Physicians, Physician Consortium for Performance Improvement®, National Committee for Quality Assurance. Emergency medicine physician performance measurement set. Chicago (IL): American Medical Association, National Committee for Quality Assurance; 2006 Oct. 14 p. [6 references]

## **MEASURE AVAILABILITY**

The individual measure, "Measure #8: Fibrinolytic Therapy Ordered within 20 Minutes of 12-lead ECG Performed for AMI," is published in the "Emergency Medicine Physician Performance Measurement Set." This document and technical specifications are available in Portable Document Format (PDF) from the American Medical Association (AMA)-convened Physician Consortium for Performance Improvement® Web site: [www.physicianconsortium.org](http://www.physicianconsortium.org).

For further information, please contact AMA staff by e-mail at [cqi@ama-assn.org](mailto:cqi@ama-assn.org).

## **NQMC STATUS**

This NQMC summary was completed by ECRI Institute on January 2, 2008. The information was verified by the measure developer on February 18, 2008.

## **COPYRIGHT STATEMENT**

Measures including specifications

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